Data Flow Pattern Recognition and Manipulation

ABSTRACT

This invention makes use of the capability of a network processor (as described more fully herein) to perform software directed tree searches. Pattern recognition data processing, as expanded upon in the detailed description, opens possibilities for data mining, virus protection, security and other functions. As realized in accordance with the varying embodiments of this invention, significant performance improvements are obtained and highly scaleable systems are created which are capable of examining large amounts of data, both in real time and in batch modes.